

PATENT ABSTRACTS OF JAPAN

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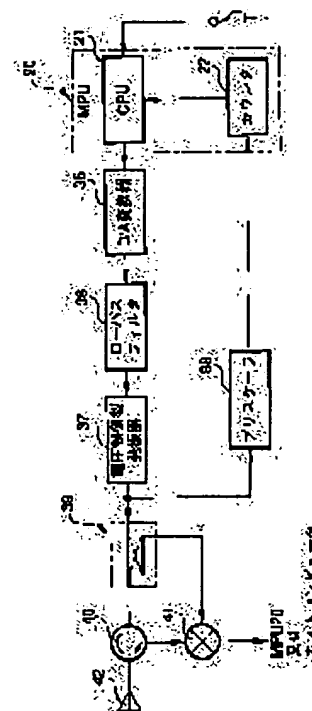
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(54) SWEEP OSCILLATION DEVICE AND FMCW DISTANCE MEASURING INSTRUMENT

(57) Abstract:

PROBLEM TO BE SOLVED: To provide a sweep oscillation device and an FMCW distance measuring instrument which can measure a distance with high precision without being made large-sized.

SOLUTION: The sweep oscillation device is equipped with a voltage-controlled oscillator, a frequency measuring means which supplies a stepped-waveform voltage to the voltage-controlled oscillator and measures the current output frequency from the voltage-controlled oscillator, and a control means which calculates an applied voltage for making a sweep speed constant from measured frequencies corresponding to respective stepped-waveform voltages obtained by the frequency measuring means and supplies the applied voltage to the voltage-controlled oscillator, and the FMCW distance measuring instrument is equipped with the sweep device.



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